22/7/23 (Item 6 from file: 2)
DIALOG(R)File 2:INSPEC

5484042 INSPEC Abstract Number: B9703-6140C-083, C9703-5260B-040
Title: A model-based complex background gesture recognition system
Author(s): Chung-Lin Huang; Ming-Shan Wu
Author Affiliation: Dept. of Electr. Eng., Nat. Tsing Hua Univ., Hsinchu, Taiwan
Conference Title: 1996 IEEE International Conference on Systems, Man and Cybernetics. Information Intelligence and Systems (Cat. No.96CH35929) Part vol.1 p.93-8 vol.1
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Conference Title: Proceedings of IEEE International Conference on Systems, Man and Cybernetics
Conference Sponsor: Tsinghua Univ
Conference Date: 14-17 Oct. 1996 Conference Location: Beijing, China
Language: English Document Type: Conference Paper (PA)
Treatment: Theoretical (T); Experimental (X)
Abstract: In this paper, a hand **gesture recognition** system is introduced to **recognize** the **gestures** of sequential digital number in a complex **background** . We present a method which uses the flexible **models** to describe the hand shapes and its variability. First, we present the hand shapes in the training set by the manually labeled points located on the boundary of the objects. Next, we align the all training shapes for examining the statistics of the **coordinates** of the **model** points over the training set. This flexible **model** can only fit the new hand examples which are similar to the shapes of the corresponding training set. From the extracted hand features, we can judge which state it belong to, and present the entire continuous gesture by a state **sequence** . In the experiments, we illustrate that the system can **recognize** the **gestures** of both single digital number and sequential digital number. (17 Refs)

22/7/24 (Item 7 from file: 2)
DIALOG(R)File 2:INSPEC

5467365 INSPEC Abstract Number: A9704-9530-027
Title: Gravitational microlensing by random motion of stars: movie and analysis of light curves
Author(s): Wambsganss, J.; Kundic, T.
Author Affiliation: Central Inst. for Astrophys., Potsdam, Germany
Journal: International Astronomical Union Symposium Conference Title: Int. Astron. Union Symp. (Netherlands) no.173 p.287-8
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Conference Title: Astrophysical Applications of Gravitational Lensing. 173rd Symposium of the International Astronomical Union
Conference Sponsor: IAU
Conference Date: 9-14 July 1996 Conference Location: Melbourne, Vic., Australia
Language: English Document Type: Conference Paper (PA); Journal Paper (JP)
Treatment: Theoretical (T)
Abstract: We present a quantitative analysis of the effect of microlensing caused by random motion of individual stars in a galaxy lensing a **background** quasar. We calculate a large number of magnification **patterns** for positions of the stars slightly offset from one **frame** to the next, and thus obtain light curves for fixed quasar and galaxy